Climatological Data for September, 1909. DISTRICT No. 9, COLORADO VALLEY.

FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

The seasonal summer rains, which, this year, were remarkably heavy and widespread, ended abruptly at the beginning of the second decade. During their continuance, the weather in September resembled that of the preceding months; there was a great excess of cloudiness, humidity, and rainfall, with low day temperatures and deficient wind movement. After their close, fair weather prevailed, except for local showers on the 24th and 25th, and the amount of sunshine and the diurnal range in temperature were greater. A cool wave, that brought frost to the higher parts of the district, occurred from the 13th to 15th. A second cool spell prevailed from the 22d to 24th, but over the greater part of the district no killing frost occurred during the month.

The mean temperature of the 136 stations reporting was 66.2°, or 0.9° below the normal. In western Wyoming the mean was 52.3°, or 2.1° above the normal; in the southern portions of the district there was a general deficiency. By subdivisions the means and departures were: western Colorado, 55.1°, -0.7°; eastern Utah, 62.9°, -0.1°; western New Mexico, 64.3°, -1.9°; Arizona, 73.5°, -1.1°. The highest monthly mean was 86.6°, at Mohawk Summit, Ariz.; the lowest, 38.2°, at Corona, Colo. The extremes were: 110° at Parker, Ariz., and 7°, at

Breckenridge, Colo.

The average precipitation for the 170 stations reporting was 1.47 inches, or 0.33 inch above their normal. By watersheds the means and departures were: Green, 1.80 inches, +0.40 inch; Grand, 1.86 inch, +0.49 inch; San Juan, 2.13 inches, +1.18 inches; Little Colorado, 1.48 inches, +0.30 inch; Gila and its tributaries, 1.09 inches, +0.08 inch; lower Colorado and its tributaries, 1.37 inches, +1.01 inches. The heaviest monthly amount was 4.56 inches at Fort Wingate, N. Mex.; the least, 0.10 inch at Sentinel, Ariz. Many stations in the San Juan Basin and vicinity reported over 1 inch in twenty-four hours, usually on the 4th and 5th.

This heavy rain falling on a remarkably steep and rocky watershed, caused violent floods in the San Juan and San Miguel rivers and their tributaries. Bridges were carried away, railroad tracks buried under earthslides, growing crops were destroyed and, in places, fields were swept bare and orchards were carried away by the erosive action of the flood. In the San Juan, the water reached the higher's stage since settlement of the region, and it is said that the Indians have no tradition of so great a flood. In Arizona the rainfall was not generally beyond the carrying capacity of the streams, and the previously good water supply was augmented. Without further replenishment, the water supply was considered sufficient to last until January 10.

The sunshine was generally below, and the humidity above the normal, on account of the cloudy and wet weather of the first two weeks. Both elements were near the average in the latter part of the month. The wind movement was light, especially in Arizona; this condition has obtained throughout the summer, and is generally found in very wet seasons.

NOTES

OPENING OF GUNNISON TUNNEL.

The formal opening of Gunnison Tunnel was celebrated at the west portal of the tunnel September 23, with the President of the United States, the Secretary of the Interior, and officials of the Reclamation Service in attendance, and in the presence of many excursionists from all parts of Colorado. A program planned by a committee of local citizens, known as the Gunnison Tunnel Opening Committee, was satisfactorily carried out.

Gunnison Tunnel has a length of a little less than 6 miles and a crosssection nearly rectangular, about 10½ by 12 feet. When completed it will have a capacity of 1,300 second-feet of water, and its purpose is to convey water from Gunnison River to the valley of the Uncompangre River for use in irrigation.

The construction of the tunnel was begun in January, 1905, and the actual opening through the tunnel was completed July 6, 1909. For a portion of its length additional excavation will still be required to complete the full section, and a considerable amount of concrete lining is yet to be placed.—

Reclamation Record, October, 1909.

The Roosevelt Dam, located 75 miles east of Phoenix, Ariz., on the Salt River, at the junction of Tonto Creek will be completed about July 1, 1910. L. C. Hill, Supervising Engineer of the Salt River Project, Phoenix, Ariz., states that the waters of Lake Roosevelt are already 2 miles wide and 10 miles long; and that, when the dam is finished, the water impounded in the lake will be 5 miles wide and 25 miles long, a volume sufficient to irrigate 350,000 acres of land in the lower Salt River Valley, for two years, without replenishment from additional precipitation, run-off, or other source of water supply.

The Reclamation Service has abandoned the San Carlos Project, on the Gila River, in southern Gila County, and recommended the boring of artesian wells for irrigation purposes

The Laguna Dam, on the Colorado River, located 12 miles north of Yuma, Ariz., has recently been completed. This project is capable of serving water sufficient for the irrigation of some 200,000 acres of land lying along the Colorado River, on the borders of Arizona and California, which will open be for entry during October, 1909.

The Director of the Coconino Forest Experiment Station, Mr. G. A. Pearson, whose headquarters are at Flagstaff, Ariz., has been experimenting with wild grasses with a view to planting

hardy grasses for range stock.

The date crop in the Salt River Valley is unusually large this year, and unless heavy rains fall in October, a full crop will be gathered. Lemons ripened during the first week in September, one month earlier than in the preceding year. The gathering of the almond crop ended early in September. It was the largest crop ever grown in the Salt River Valley. The orange crop promises a large yield.

The experiments made in the planting of Egyptian cotton in the lower Colorado and the Salt River valleys, by the Department of Agriculture, during the spring of 1909, have given good results. Picking is still in progress at Buckeye, Phoenix,

Sacaton, and Yuma, Ariz.

FLOOD ON THE SAN JUAN RIVER SEPTEMBER, 1909 By W. B. Freeman, District Engineer, Geological Survey.

On September 5 and 6, 1909, a very heavy flood took place on the San Juan River and tributaries in southwestern Colorado and northwestern New Mexico. It is stated by the oldest residents in the vicinity of Aztec and Farmington that both the Animas and San Juan rivers reached higher stages during this flood than at any time since the country has been settled; and there was even a statement to the effect that the Indians had no memory of a time when the San Juan was so high.

The high water was caused by heavy and continuous rains at the headwaters and all along the courses of these streams. The upper San Juan itself and all its tributaries from the Piedra westward to and beyond the La Plata, from the north, were simultaneously in flood with the Canyon Largo and other large perennial tributaries from the south, all of which are capable of carrying enormous quantities of water. The Canyon Largo, for instance, has a main water course upwards of 70 miles long, and tributaries 40 or 50 miles long, so that it drains a very large area which at times is subject to an excessive run-off.

The effect of the combined flow of these streams can readily be imagined, and there was the usual resultant damage. In Colorado, the Denver and Rio Grande Railroad sustained the greater part of the loss. Along the Animas River, between Silverton and Durango, the railroad tracks were washed out in many stretches, and at others covered with immense deposits of sediment. Traffic on this branch was suspended for about three weeks. The cost to the railroad company amounted to a great many thousand dollars, but no estimate of the loss has been obtained. The Animas River did considerable damage in the town of Durango and surrounding country.

The Pine River was in heavy flood and overflowed its banks in many places. At La Boca the river took out the approach embankment to the railroad bridge on the right bank. It has since been necessary to construct a pile span to replace this embankment. Spring Creek, which flows into the Pine River near this point, was very high, and where it follows along the railroad the latter was washed out in several places. A locomotive went into the ditch at a small railroad trestle on this creek. The Piedra and upper San Juan were also at a very high stage.

In San Juan County, New Mexico, the principal loss was sustained by the Farmington branch of the Denver and Rio Grande Railroad; by the county, through the washing out of the suspension bridge across the San Juan at Blanco; and by the farmers through the overflow of their lands by the flood waters of the Animas and San Juan rivers. The extent of the total loss in that county is not known, but it is believed to be not less than \$20,000; the Blanco Bridge alone cost about \$4,200.

The Flora Vista glade, which runs into the Animas River, carried a great deal of water and sediment, and did no little damage to the railroad track and the surrounding country both by washouts and the deposition of sediment. Other glades and arroyos were correspondingly high, though most of them are not in a position to do much damage.

The various streams in that section commenced to rise rapidly on Sunday, September 5, and by Sunday night they were at high stages. The maximum heights were obtained early Monday morning in the upper reaches of these streams, and about 10 o'clock on Monday night in the vicinity of Farmington.

The rainfall was quite general. As far west as Fruitland there was about seven-tenths of an inch of precipitation during the first six days of September, most of which fell on the sixth; and as far east as Chama, the rainfall amounted to 1.6 inches from September 1 to 6. At Durango, Colo., the rainfall was 3.6 inches during the above period, of which 1.64 inches fell on September 5 and 0.82 inch on September 6. The combined precipitation on September 5 and 6 at various points was as follows: Silverton, 2.50 inches; Hesperus, 2.70 inches; Mancos, 1.40 inches; Ignacio, 0.90 inch; Pagosa Springs, 1.90 inches.

The San Miguel River was in heavy flood at this same time, and the bursting of the Trout Lake Reservoir dam caused the destruction of a great deal of the property below. Several miles of railroad track were damaged or entirely washed away.

The San Juan River, at Arboles, Colo., above the most important tributaries, was at a very high stage and probably reached its maximum on Sunday night. At Blanco, N. Mex., above the Canyon Largo, the U. S Geological Survey and Territorial gage read 10 feet on Sunday evening, and at 6 a. m. Monday, September 6, when the county suspension bridge was washed out, the maximum gage height was about 11 feet. The maximum discharge there was not less than 15,000 second-feet. At Bloomfield, 12 miles below the mouth of the Canyon Largo, the river had a flood cross-section of 1,800 square feet and a maximum discharge estimated from 18,000 to 20,000 second-

feet. The river overflowed the bottom lands all along its course, and in many places the course of the channel was entirely changed. At one place part of an orchard was washed into the river, and at another a house was carried away when the bank caved in. At the county bridge at Farmington, below the mouth of the Animas, the river reached a maximum height late on Monday evening. The gage height was in the neighborhood of 12.3 on the old U. S. Geological Survey gage, cross-sectional area 3,200 square feet, and the estimated discharge not less than 35,000 second-feet. At this place the river overflowed the right bank for a distance of about 100 yards beyond the end of the bridge, but the latter was not damaged in any way.

The Animas River, at Durango, reached a maximum height of 8.50 at the Power Company's gage between 4 and 6 a.m., Monday, September 6. The maximum discharge was estimated to be over 10,000 second-feet. Between 6 and 7 p.m. on Monday the maximum height of 11 feet was reached on the U. S. Geological Survey and Territorial Engineers gage at Aztec, N. Mex., and between 10 and 11 p.m. the maximum gage height at the old U. S. Geological Survey gage at Farmington was 11.1 feet. At Aztec the river overflowed the right bank for a distance of 800 feet beyond the end of the suspension bridge, the water being from five-tenths to 2 feet in depth; and at Farmington the river was over its right bank for a distance of a quarter of a mile; the fair grounds and race track there were entirely submerged.

The flood cross section at Aztec was about 3,100 square feet, and the estimated discharge was 16,000 second-feet. At Farmington the maximum discharge was probably from 18,000 to 20,000 second feet.

The La Plata River attained a maximum gage height of 7.60 feet on the U. S. Geological Survey and Territorial Engineers gage at La Plata, N. Mex., on Sunday night, September 5, and it is estimated that the maximum discharge was from 6,000 to 7,000 second-feet. The left bank was overflowed for a distance of 1,000 feet, and the cross-sectional area of the overflow was 1,300 square feet, while the cross sectional area of the main channel was only 224 square feet. It is estimated that the channel under the bridge at La Plata carried a maximum of 3,000 second-feet, while the overflow amounted to as much or more than that amount.

During this flood on the San Juan River probably over 100,000 acre-feet of flood waters went to waste and were allowed to do a great deal of damage to the surrounding country. Had these waters been properly stored in any of the numerous reservoirs contemplated in San Juan County, such as the proposed San Juan Reservoir, all of this damage could have been prevented and the waters used for the irrigation of a large acreage.

It is true that a flood of this magnitude is not likely to occur for a number of years, and it is also true that it is not necessary to store these excessive flood water for irrigation purposes. The San Juan River is a magnificent stream and its normal flow is ample for the irrigation of all the lands which it will be possible to put under cultivation for a number of years to come; however, some storage is necessary on the San Juan, as on any other river in the West. In the latter part of September of this year the flow of the San Juan River above the mouth of the Animas was only 1,100 second feet, and of the Animas River, at Aztec, 800 second-feet. These flows were considerably above the normal for that period of the year.

Table 1.—Climatological data for September, 1909. District No. 9, Colorado Valley

,			Şī.	Temp	erature,	in deg	rees F	ahre	nheit	:.]	Preci	ipitation	. in in	ches.	lays,		Sky.	Ī		
Stations.	Counties.	Elevation, feet.	Length of record,	Mean	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy day .01 inch or more.	Number of clear days.	Number of part- ly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Wyoming.	Uinta	6, 740	10	48.5	+ 2.1	74 j	 27†.	15	23	49	1.35	 - + 0.56	0.57	Т.	5	11	12	7	nw.	J. M. Van Dervort.
Dixon Eden	Carbon	. 6.577		53.4		78	¹	16	23†	 52 ¦	0.91		0.36	 ο. υ	5	 17			w.	Carey O. Morgan. Eden Valley L'd & Ir. Co
Kendall	Uinta Sweetwater Fremont	. 7.630	1	56.0	i	87	2	19	23	57	0.54	 	18.0	0.0	5	15	9	8	w.	C. W. Holden. Geo. H. Maxom. Art. Doyle.
Pinedale Willow Creek Cabin	do	7, 167 7, 500	3 1			!			····											Forest Service. John L. Allen.
Colorado. Asheroft	PitkinSummit	9, 483 9, 536	8 19	47.4 44.6a		73 703	2†ı 28†	18 7*	22 22 22	41 50%	2.75 1.86	 + 0.52	0.57	0.0 4.0	16 10	··;·	30	ا	 ве,	Dan McArthur. Mrs. J. G. Thompson.
Cascade Chromo	San Juan	. 8,900 7,500	3	52.5		sö.l		20	- 1	58	2.32		0.79	0.0		20	3.		sw.	San Juan P. & W. Co. Lawrence Nolan.
Cochetopa	Saguache	9,088	16	58.0	- 1.5	79	2 †		24	47	$\frac{2.33}{3.32}$	+ 0.97	0.45 0.79	3.5 0.0	13	9 18	17 9	4	w. sw.	Bessie McDonough. A. A. Wood.
Columbine Columbine Ranch	Routt	. 6, 925	····	 ''48'3'I			. • [!]		ļ _.	! !			'	!. .	' ₁	: 	! - • • •	:::.J		Jas. H. Caron. Geo. W. Wade.
Corona Crawford (near) Crested Butte	Montrose	. 6,600		58.1	, ,	84	2† 2	14 28	22T!	34	1.89	:::::::: ::::::::	0.76	17.5 0.0 0.0	8	19 10	8	3	w. 	U. S. Weather Bureau. C. W. Roe.
De Beque Delta	Mesa	4, 935	18	;	+ 1.4	:	2†	29					0. 73	0.0 0.0	4	!	3	.12 5	w.	Charles L. Ross. C. M. Paine. E. M. Getts.
Oillon Dolores	Summit	. 8,800 . 6,500							21+	43	1. 27 1. 45	+ 0.23	0.40	4.2	12	22 3 13	19	8	n. se.	Harry T. Hamilton. Geo. R. Simmons, jr. Geo. W. Dunkley.
Dunkley Durango	La Plata	. 6,534	3 16	57.4	- 0.8	80		31 18*	۱ ۱	1		+ 1.70		0.0	8	13	13 7	 4 3	nw.	U.S. Weather Bureau.
lagle	San Juan	. 10,000		53.4	· • • • • • • • • • • • • • • • • • • •	80			ا ا	!	I .			0.0	'6.	20			w.	J. M. Witteman. San Juan P. & W. Co.
ruita. Hadstone Henwood Springs (near).	San Juan	. 10, 400	10 ! 3 : 11 !	62.2	— 1.3 ·	86			227	53 	. 	+ 0.46	0.55	0.0	7	18 	9		se.	J. B. Willses. San Juan W. & P. Co.
Frand Junction Frand Lake	Mesa	. 4,608	18	64.6	- i.8	87	3	39	22.	37	2.06 1.13 0.60	+ 1.37 + 0.18	0. 28 0. 52 0. 35	0.0 0.0 T.	6	17 17 25	10	13 3 5	w. e.	E. A. O'Neil. U. S. Weather Bureau. Mrs. Belle Kauffman.
rand Valley	Garfield	. 5,089	17 16	62.3 54.1	- 0.2 + 2.3	88 86 i	3	27 19	23 23	52 45	1.90	$+\ 0.47 \\ +\ 1.50$	0.88	0.0 0.0	8	15 14	$\begin{array}{c c} 12 \\ 12 \end{array}$	3	sw.	David Evans.
Iayden Iesperus	RouttLa Plata	. 6,337 . 8,870	ii	· · · · · · ·		! 	j				l. .	+ 2.62	1.99	0.0	 8	22	4	4		C. W. Harkness. John S. Spear.
Iorseflygnacio	La Plata	. 6, 425			:::::::				ا		1.21		0.50	0.0	···;	16	io	4	w.	Lawrence J. Finch.
ronton Cremmling (near)	Grand	. 7,337	1	52.0		78 74	26	20	23	50	1.06 1.76	ļ	0.38	T.	10	19	3	8		P. H. Foley. H. A. Howe. W. H. Ogle. A. G. Wallihan. T. T. Richards. R. M. Kruppopitalis.
ake City ayujane	Routt	. 6, 190	15 3	55.2	- 1.2	S2 87	2 3†∫ 9	22 18 29	23	51 43	1.68	1+0.20	0.60	4.0	6 9	11 15 20	11 3	12	s. sw.	W. H. Ogle. A. G. Wallihan.
fancos	Montezuma	. 6,960	10	56.4	- i.o	78 78	3 26	$\frac{26}{21}$	22	40	2.38	+ 0.93	0.63 0.99 0.56	0.0 0.0 0.0	7	19 18	8	8 3 4	877. 8W.	B. M Krumpanitsky. Homer Harrington.
Aarshall Pass	Saguache Rio Blanco	. 10, 846 . 6, 182	17	54.6		80	2† 2†			47	2.71	l	1.00	8.0 0.0	7	18 20 3	6	6	w.	William D. Lillard. T. Baker.
Iontrose (near)	Pitkin	. 7,953	1	57.6	-1.0 -2.9	80	7		22†	'	1.12	+ 0.17 + 0.92	0.41	0.0 T.	8	21 21 21	26 4 7	1 5	w.	R. Butterfield. Arthur Hanthorn.
agoda agosa Springs aonia	Archuleta	. 7,108	2	54.6 53.6	- 0.7	84 79 85	2 2† 2	20 20	23	50 52 39	2.48 3.10	+ 1.05	1.10 1.40	0.0	· 8	21 16 12	7	7	sw,	Shaw Brothers. E. T. Walker.
arshall Itkin	Grand	.l .		01.0				34	22†		1.82 0.81 2.63		0.52	0.0 0.0 2.0	6 6	12	16 	 5	87.	J. M. Underwood. F. A. Field. Mrs. Maggie Cammann.
	Rio Blanco Eagle	5,050 8,695	10 14	59.0	+ 1.3	85	2	28	24	46		+ 0.35	0.56	ő. ŏ		ii	15	4	₩.	Mrs. C. P. Hill. Dorothea Greiner.
lico Liver Portal	Dolores	8,824		57.7		81	it	28	22	47	1.67		0.60	0.0	8	16	5	9		Clinton B. Smith. J. Dill.
apineroilt	Garfield	. 5.441	13	59.6	- i.7	75 87	2 3†	28 21 27	23 23	42 50	2.67 0.53	- 0.89	$0.76 \\ 0.23$	1.5 0.0	. 6	17 20	8 9	5	w. w.	W. F. Irving. W. S. Park.
ilverton (1)ilverton (2) pruce Lodge	!do	9,400	3				30								l	15	6	• • • • •	hw.	V. E. Kerr. San Juan P. & W. Co.
teamboat Springs Tacoma	Routt	6,683		53.3		S1×	27t'	16	23 :	57k	2.31	 	0.61	30	10	21	4	5		H. J. Wills. M. Elliot Houston. San Juan P. & W. Co.
Cerminal Dam Incompahere Plateau	Montrose	. 8,300 . 8,400	. 3																	Do. Martin Esser.
Vhitepine Zampa	Routt	9,500 8,000	8	45.3			17		21†	41 	2.75		2.60	6.0	7	16 8	11 19	3	8.	C. E. Macy. Percy A. Hughes.
Utah.	San Juandodo.	4,800	8					 .	 				 !	<u></u> .	<u>.</u> .	-:::	ا.ي		. ,	
Basin	Grand	. 9,500	J		+ 1.5		10		٠ا		2.32	+ 0.98	0.48 0.75	2.0 0.0		7	19		sw.	Maude A. Palmer. E. H. Wolf. James Jeffs.
Oragon Oyer Mountain	Uintado	. 10.000	i						'				l							H. J. Cooper. U. S. Forest Service.
Elkhorn Emery	Emery	. 7.000		'	$\begin{array}{c} + 4.5 \\ + 2.4 \end{array}$	86	i†	··· <u>29</u>	l i	!	'	+ 2.70 + 1.63		0.0	5	3	j J)	8W.	Do. H. C. Wickman.
Secalante Experiment Station	Washington	. 2,880	j 5			79	3	35			l <i></i>			0.0	l	17	}	!		Geo. H. Barney. Joesph T. Atkin.
Fort Duchesne Frayson Freen River	San Juan	. 5,750	5	63. 0	+0.0 + 1.2	86 84	2† 3†	28 32		44 39	1.40	- 0.54 - 0.75	0.37 1.25	0.0	. 2	18 18	10	2	w. s.	H. Curtis. Joseph A. Lyman.
Hite Kanab	Garfield	. 3,000	10	72.2	- 0.1	96	3	47		35	1.70	+ 0.14 + 0.68	0.37	0.0		22 18		1 !		John P. Hite.
.a Sal	San Juan Wayne	7,000 7,000	17	57.6 52.0	- 0.1 - 1.1	78 78	3 ∣ 2†	25 25	22 22†	38	1.40 0.75	+ 0.03 + 0.20	0.47	0.0	7 5	14	13	3	 	Gertrude W. Carpenter.
ин Салуоп Иоар	Washington	. 8.400	20		+ 0.4	92		32			0.70	+ 0.07	0.40 0.41	0.0	5	14				J. A. Gardner.
Monticello	San Juan		. 1	53.4	- i.6	75	16†		13				1.08	0.0	6	15	ii	···•··	w.	D. B. Perkins. J. W. Seaman.
st. George scofield	Washington Carbon Washington Wasatch	. 2,880 . 7,625	28	46.2		78	1	21	29	42	3.21		2.60	T.	iò	∣ 18 ′	2 6	10	• • • • • •	Jas. G. Bleak. O. E. Jorgensen.
trawberry Valley	Washington Wasatch Carbon		3	51.6		- 77 :	24 2	38 20	22	37	1.93		1.14	1.0	8	9 10	18	15 (ø.	Wm. W. Flanigan. U. S. Reclamation Service

Table 1.—Climatological data for September, 1909. District No. 9—Continued.

	TABL	E 1.—(Himo	atologi	cal date	ı for S	leptem	ber, 19	09.	Dis	trict N	o. 9—	Cont	inu	ed.				
			yrs.	Tempe	erature, i	n degre	es Fah	renheit.	. ;	Precip	oitation,	in Inc	hes.	lays, e.		Sky.		lon.	
Stations.	Counties.	Elevation, feet.	Length of record,	Mean.	Departure from the normal.	Highest.	Date. Lowest.	Date.	Createst daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy de	Number of clear days.	Number of part- ly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
Utah—Cont'd. Teasdale Theodore			1 4 12	59.0 57.8	+ 0 4 + 0.4		3 2: 30 30	7 22	44 44	1.75 2.72 2.45	+ 1.80 + 1.40	1.00 1.69 1.89	0.0 0.0 0.0	5 5 4	 1 15	12 12	 4 3	8w.	Josiah Shurtz. L. Claire Winslow. E. P. Bolton.
Vernal	Wasatch Garfield Uinta Carbon	5,380 5,540	14	55.3	- 2.7	80	2 20	3 23	43							••••			Joab Collier. Melville Branch.
Bloomfield	San Juan Luna Grant Luna do.	5,500 4,215 4,470 4,054 4,333 6,767	33	68. 2*	- 2.6 - 2.6	90 ^d 	2† 3; 3 4; 2† 2;	04, 23 5* 27	50°	1. 25 1. 82 0. 32 0. 88 0. 55	+ 0.43 - 0.25 - 0.19 - 0.51	0.60 1.00 0.50 0.97 0.19 0.85 0.30	0.0 0.0 0.0 0.0 0.0 0.0	3 3 5 2 2 2	13 15 17 17 20 21	16 11 0 2 4 8	6	w. sw. sw. w.	Wm. J. Oliver. Fred Le Clerc. Agent, Southern Pac. Ry T. J. Clark, sr. Agent, E. P. & S. W. R. R. Agent, Southern Pac. Ry. W. A. Fuller.
Fort Bayard Fort Wingate Frisco Fruitland Gage Hachita	Grant McKinley Socorro San Juan Luna Grant	6, 152 6, 997 5, 800 4, 800 4, 486 4, 504	35 46 3 17 5	66. 6 58. 4 67. 1 63. 8 70. 0	+ 0.2 - 4.6 + 0.5	82 90 87	2 4: 2 2: 2 4: 2† 3: 1 4:	7 13† 0 23	37 42 36 48 41	1. 55 4. 56 2. 08 0. 95 0. 45 0. 26 0. 27	- 0.41 + 3.21 + 0.21 - 0.74	0.60 1.20 0.77 0.65 0.25 0.16	0.0 0.0 0.0 0.0 0.0 0.0	4 9 5 2 2 3	28 16 16 24 11 20	2 5 13 5 14 7	0 9 1 1 5 3	nw. sw. sw. w. e. nw.	Fred Le Clerc. Agent, Southern Pac. Ry T. J. Clark, sr. Agent, E. P. & S. W. R. R. Agent, Southern Pac. Ry. W. A. Fuller. U. S. A. Gen'l Hospital. Medical Corps, U. S. A. John R. Milligan. Cyril Jas. Collyer. Agent, Southern Pac. Ry. Agent E. P. & S. W. R. R. Do.
Hermanes Lordsburg. Lana (near) Manuelito Mimbres Pratt. Redrock. Rodeo.	Grant Socorro McKinley Grant do do Rio Arriba		3	• • • • • •	- 2.4	•••••	•••••	8 14 0 24 ·		C. 95 2. 18 1. 81 1. 61	- 0. C4	0.40 1.37	0.0 0.0 0.0 0.0 0.0 0.0	3 5 8 5 3 4 7	13 18 9 19 23 18 19	6 22 13 9 3 10 4	0 8 2 4 2	w. sw. nw. e.	Agent Southern Pac. Ry. C. B. Martin. W. A. L. Tarr. Charles Dennis. Agent, E. P. & S. W. R. R. Robt. H. Woods. Agent, E. P. & S. W. R. R. B. A. Candelario.
Allaire's RanchArisona Canal Dam AstecBenson	Cochise	4, 184 1, 372 492 3, 523	13	82. 0 83. 2	- 1.1 - 4.2 - 3.9 - 3.0	104 2 104 104 97	24 6 9† 5 4 4	0 21 5 30 9 14	35 42 41	0.82 0.90 0.94	- 0.20 + 0.23 + 0.67 - 0.03 - 1.15 + 0.18	0. 37 0. 48 0. 64 0. 30 0. 37	0.0 0.0 0.0 0.0 0.0	4 4 4 5 7	21 16 22 11 21	4 8 7 9	••••	e. s. ne. e.	B. A. Candelario. Thos. Allaire. U. S. Reclamat'n Service. Agent, Southern Pac. Ry. Do Rev. J. G. Pritchard.
Bonita	do. Graham Cochise Maricopa Pinal do. Maricopa	4, 916 3, 756 980 1, 396	30 9 17 28	73. 4 81. 3	- 0.2 + 1.0	95 105 2	2† 50 24 50 24 50 24 5	0 14† 0 30 5 21	40 49	0.40 i	+ 0.18 - 0.80 + 1.15	0.74 0.20 1.49	0.0 0.0 0.0 0.0	3 3 5	16 23 23 17	8 0 6 11 10	6	w. e. w.	A. Johnson & Co. Agent, Southern Pac. Ry. H. E. Kell. Agent, Southern Pac. Ry. F. Pinkley. E. H. Howard.
Cavecreek. Chin Lee Chlarsons Mill Clifton Cline Cochise	ApacheGrahamdo.	8,000 8,000 3,584 2,300 4,219	1 4 17 8 11 9	62.7 59.6 77.4 74.6 70.1		88 82 99 96 96 92	3 3 25 4 2† 5	1 23 2 20 0 13 1 17† 3 29†	46 32 37 40 48	1. 63 2. 67 0. 66 1. 10 0. 66	- 1.09 + 0.14 - 0.25	0.82 1.20 0.50	0.0 0.0 0.0 0.0 0.0	5 5 3 3 3 3 3	21 14 22 15 16 19	5 11 8 11 10 4	4 5 0 4	sw. sw. nw.	Fr. L. Osterman, O. F. M. H. R. Chlarson. W. B. Cramer. W. M. Clanton. Agent Southern Pac. Ry. M. J. Nolan.
Congress	dododo.	3,688 5,250 3,930	13 1 6 18 17	76. 4 68. 2 74. 6	- 2.8 - 3.0 + 0.1	93 2 92 100 96 2	3 3	2 30 6 22 8 20† 9 14 2 22	26	0.41 1.83 0.66	- 0.24 - 0.10 - 0.35	0.41 0.92 0.31 0.97 1.39	0.0 0.0 0.0 0.0 T.	3 5 5 8	22 16 24 8 18	3 13 5 16 7	5	sw. e. sw. s.	Assayer, Congress Mine. N. Erickson. Dr. F. T. Wright. G. F. Cook. U. S. Weather Bureau. C. C. Moers.
FOR ADACHE	Coconino	5, 100	1 9 30 23 20 18		$ \begin{array}{c c} + 0.4 \\ - 0.1 \\ + 1.8 \\ - 3.6 \\ - 1.8 \end{array} $	108 2 90 94 2 107 108 1	2 3 23 4 9 5 IC 5	9 18 8 13 9 20 6 29† 8 30	37 43	1.65 0.53 0.12	+ 0.43 - 0.14	0.12	0.0 0.0 0.0 0.0 0.0	7 4 5 6 2	10 19 21 17 22 23	12 5 8 2 6 5	8 6 1 11 2	nw. sw. ne. se.	U. S. Forest Service. Agent, P. & E. R. R. Post Surgeon. Do. A. F. Duclos. Agent, Southern Pac. Ry
Holbrook	Gila,	3, 525 6, 866 3, 676 9, 200 5, 069	8 5 2 18 4	57.4 . 72.0	- 0.1	80 90	3 5 8 3 2 5	4 26 1 11	38 40 33 	1. 07 0. 59 2. 71 0. 31	- 0.47	0, 68 0, 42 1, 00 0, 14	0.0 0.0 0.0 0.0 0.0 0.0	8 3 4	10 14 19 12 23 18	19 1 7 11 5	1 15 4 7 2 6	nw. sw. sw.	Dr. B. G. Fox. Agent, Santa Fe R. R. C. C. Spaulding, Mrs. M. Butler. Thorwald Larson. A. H. Neal.
Jerome. Keams Canyon. Kingman Maricopa. Mesa. Mohawk Summit	Yavapai Navajo Mohave Pinal Maricopa Yuma	3, 326 1, 186 1, 244 538	12 29 14 9	61.1 . 71.3 : 83.6 :	$ \begin{array}{r} -2.6 \\ -1.4 \\ +1.4 \\ -1.6 \end{array} $	82 95 1 109 1 108 2	2 3 24 3 14 6 24 5	9 30 0 ; 16† 6 : 30	38 47	1.26 0.80 1.25 0.50 0.72 0.14	+ 0.11 + 0.02 + 0.13 - 0.10	1, 07 0, 60 0, 41 0, 22 0, 20	0.0 0.0 0.0 0.0 0.0	3 5 5 5 5 2	23 17 20 20 14 14	6 13 7 6 11 16	1 0 3 4 5	s. sw. sw. se.	Dr. L. A. Hawkins. L. R. Ballard. G. R. Gooding. Agent, Southern Pac. Ry C. L. Diehl. Agent, Southern Pac. Ry
Natural Bridge	GilaSanta CruzPinalCochiseYuma	4,990 3,830 4,500 3,940 345 5,500	20 5 19 2 11 1	72. 0 72. 2 64. 9 82. 0 65. 6	- 1.5 - 1.3	93 88 1 88 110 85	2 4 12† 5 2† 3 9 5 2† 4	6 18 6 13 9 14 3 29† 1 20†	46 46	2. 14 2. 47 0. 91 1. 01 0. 81	+ 1.04	0.86	0.0 0.0 0.0 0.0 0.0 0.0	5 9 6 4 2 3	18 14 22 8 25 25	9 7 3 21 2 0	3 5 1 3	sw. se. n.	D. G. Goodfellow. Wallace & Summerhayes. W. H. Winters. J. C. Hancock. Dr. H. K. Marshall. M. McDonald.
Phonix (1)	Maricopadodo PinalApacheYayapai	1, 108 1, 092 1, 189 4, 520 5, 660 5, 320	14 18 1 15 28	81.0 79.2 82.4 62.9	- 0.4 - 1.7	104 105 107	24 6 24 5 9 6	1 30 4 16† 0 19†	37 50 38	0. 42 0. 56 0. 37 0. 74 2. 20	- 0.59 - 0.01	0. 20 0. 17 0. 18 0. 35 1. 27	0.0 0.0 0.0 0.0	3	20 20 10 24 24 22	9 7 19 6	1 3 1 	e. se. w.	U. S. Weather Bureau. G. Acuff. J. A. Ream. Irion & Craig. Mrs. C. F. Henning. Dr. J. W. Flinn.
Quartssite. Redrock. Roosevelt Sacaton. St. Johns. St. Michaels. Salome.	Yuma Pinal Pinal Apache Yuma	800 1, 856 2, 175 5, 650 6, 950 880	2 4 2 4 13	82.4 81.2 80.1 81.4 63.6 58.1 75.9	- 0.1	102 106 100 107 107 87 79 97	3† 5 2 6 2 6 2 5 24 5 24 3 1† 3	7 14 8 14† 2 : 18 5 : 21 7 : 13 1 : 23 7 : 30	42 38 32 44 45 42 48	0. 49 2. 20 1. 30 0. 42 2. 05 1. 87 0. 28	+ 0.29	0. 42 0. 94 1. 08 0. 25 1. 65 0. 50 0. 15	0.0 0.0 0.0 0.0 0.0 0.0	2 5 3 3 2 5	21 9 22 15 10 19 21	9 18 5 10 14 11	0 3 3 5 6 0 5	8W. 8W. 8W. 8W. sw.	W. E. Scott. W. J. Crowell. Wm. A. Schoenfeld. E. W. Hudson. Alex. Shreeve. Rev. A. Weber, O. F. M. Agent, A. & C. R. R.
San Carlos	Gila Cochise Yavapai Maricopa Navajo	2,456 3,609 5,219 6S5 6,300	19 24 11 6	76.0 75.6 82.4 63.0	- 0.9 - 1.0 - 3.5 - 0.7	98 : 103 : 90	22 5 IS† 6 1 4	1 19† 0 20	45 37 42 39	0. 42 0. 10 0. 25	+ 0.02 - 0.37 - 0.11 - 1.55	0.20	0.0 0.0 0.0 0.0	3 2 3	18 18 20 14	8 7 6 0	4 5 4 16	8W. 8W. sw.	F. S. Thomas, Agent, Southern Pac. Ry. C. W. Dougherty, Agent, Southern Pac. Miss Z. Hall. Ry
Stiverbell Supai	. Pima	3,200	4 2 5	79.0 . 73.0 .		91	3† 5	$egin{array}{c c} 2 & 26 \ 1 & 17 \end{array}$	27 38	2.71 0.44	· · · · · · · · · · · · · · · · · · ·	0.25	0.0 0.0 0.0	6	21 21 20	6 5	5 3 . 5	w. se.	Imperial Copper Co. Chas. E. Coe. F. H. Simmons.

Clienatelesiaal data for Santomber 1900 District No. 9 Continued

	TABLE	1.—(Clim	atologi	cal dat	a for	Sep	temb	er, 1	909.	. Di	strict N	о. 9—	-Con	tinu	ed.				
	İ		yrs.	Tem	perature	, in de	grees	Fahr	enhe	it.	Prec	eipitation	ı, in ir	ches.	days, re.		Sky.		ion.	
Stations.	Counties.	Elevation, feet.	Length of record,	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy .01 inch or mo	Number of clear days.	Number of part- ly cloudy days.	Number of cloudy days.	Prevailing wind	Observers.
Arizona—Cont'd. Thatcher	Cochise. Coconino. Pima. do.	4 550		73. 2 71. 2 65. 0 77. 8 77. 0	- 1.4 - 2.6 - 2.5	100 89 89 100 102	3 1† 3 2† 3†	45 52 40 52 47	19 13 13† 20 29	47 34 46 43 52	1. 22 1. 81 0. 56 1. 25 0. 85	+ 0.09	0.90 0.89 0.22 1.06 0.58	0.0 0.0 0.0 0.0 0.0	4 6 4 5 2	18 15 14 6 11	10 13 9 24 19	2 2 7 0 0	se. ne. w.	Prof. J. H. Larson. F. N. Walcott. G. H. Kraus. University of Arizona. H. G. Brown. B. T. Stuart.
Wilcox Williams Winslow Yarnell Yuma (1) Yuma (2)	Maracopa. Cochise. Coconino. Navajo. Yavapai Yuma. do.	4, 164 6, 750 4, 853 4, 700 141 150	29 10 1 11 30 2	82. 0 70. 2 62. 2 67. 2 82. 7 79. 2	- 3.4 + 6.0 - 2.7 + 2.0	101 106 93 83 92 105 103	2 24 3 24 24 29 9	50 60 42 40 37 52 47	19 21 22 22 22 14 30 30	39 44 38 49 44 48	1.00 0.78 0.22	- 0.09 + 0.07 - 0.94 + 0.80	0.48 0.33 0.20 1.31	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	2	12 17 13 11 22 19 15 28 20	15 10 15 3 1 7 4 2 10	3 3 2 16 7 4 11 0	sw. sw. ne. s. ne. sw.	B. T. Stuart. Agent, Southern Pac. Ry. J. O. Carter. Agent, P. & P. R. R. Agent, Southern Pac. Ry. H. Victor. L. C. Henning. E. L. Bartholomew. U. S. Weather Bureau. E. L. Crane,
Caliente Las Vegas Logan	Clark	2, 033 1, 700	3	72.8 75.4		100 99	10	40 44	25 23	51 49	0.84 0.58		0. 65 0. 37	0. 0 0. 0	3 4	20	····	 3	nw.	Agent, Salt Lake Route. Roy M. Filcher.

<sup>Precipitation included in that of the next measurement.
Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.
Also on other dates.
Data are from standard instruments not supplied by the U. S. Weather Bureau.
Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.
Estimated by observer.
Precipitation for the 24 hours ending on the morning when it is measured.
Precipitation is less than 0.01 inch rain or melted snow.
b. etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.</sup>

Table 2.—Daily precipitation for September, 1909. District No. 9, Colorado Valley.

Stations.	River basins.															Da	y of		nth	•								,					
otations.	Triver basins	1	2	3	4	5	6	7	8	9	10	1	1 1	12	13	14	15	16	17	! 18	19	20	21	22	23	24	25	26	27	28	29	30	31
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MONTHLY WEATHER REVIEW.

Table 2—Daily precipitation for September, 1909. District No. 9—Continued.

				Day of month.	
Stations.	River basins.	1 2 3	4 5 6 7	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Total
Nevada.	Colorado				 6 04
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Wyoming.

New Mexico.

Table 3.—Maximum and minimum temperatures at selected stations, September, 1909. District No. 9, Colorado Valley.

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Date.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
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11 12 13 14 15	59 58 54 65 72	31 30 31 26 26	70 56 69 75 80	42 28 32 34 35	74 57 65 71 72	46 45 38 35 40	82 58 69 75 78	45 46 54 46 49	71 70 68 73 69	40 42 41 46 39	74 67 59 67 72	40 32 39 31 34	50 58 68 74	41 32 33 26 27			80 62 71 76 75	46 36 35 38 38	89 74 79 85 87	64 50 50 50 50 52	87 87 79 81 85	61 49 42 41 42			74 75 70 72 74	54 50 45 45 50	72 69 63 69 69	48 41 28 30 31
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26 27 28 29 30	74 74 70 74 65	28 28 30 31 30	70 74 68 63 63	42 40 36 44 34	74 73 74 75 75	42 37 37 39 41	85 82 81 80 80	56 48 52 52 55	71 72 74 73 70	39 40 42 38 40	78 75 78 47 75	35 38 37 36 34	80 81 81 78 73	29 33 30 35 28			84 83 82 80 79	40 41 40 54 38	90 88 89 86 87	57 59 58 65 61	88 85 90 86 68	49 58 47 57 48	 	 	73 72 75 82 82	54 45 47 48 52	73 74 78 76 75	50 39 42 47 45
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